

ABSTRACT

A system and method for simultaneous delivery of a plurality of independent blocks of 500 MHz digital broadcast television services, stacking a plurality of RF blocks on a plurality of spectrally sliced WDM optical bands. The method for delivering a plurality of video blocks to a user terminal serviced by a remote node comprises the steps of receiving, by a first WDM, a broadband signal from a broadband signal source, separating, by said first WDM, said broadband signal into a plurality of optical bands, modulating each of the plurality of optical bands with a composite signal representing data in a plurality of independent RF blocks to form a plurality of modulated signals, forwarding said plurality of modulated signals to a second WDM to form a combined broadcast signal, transmitting said combined broadcast signal over feeder fiber to a remote node, selecting a RF block for distribution over a distribution fiber to a conventional satellite set-up box at a user's site and forwarding said selected RF block to said user's site. A novel method and system for reducing spontaneous beat noise is also described.

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